

HL POWER COMPANY
"Wen" 1
(035-90064)
13/29N/15E MD B&M

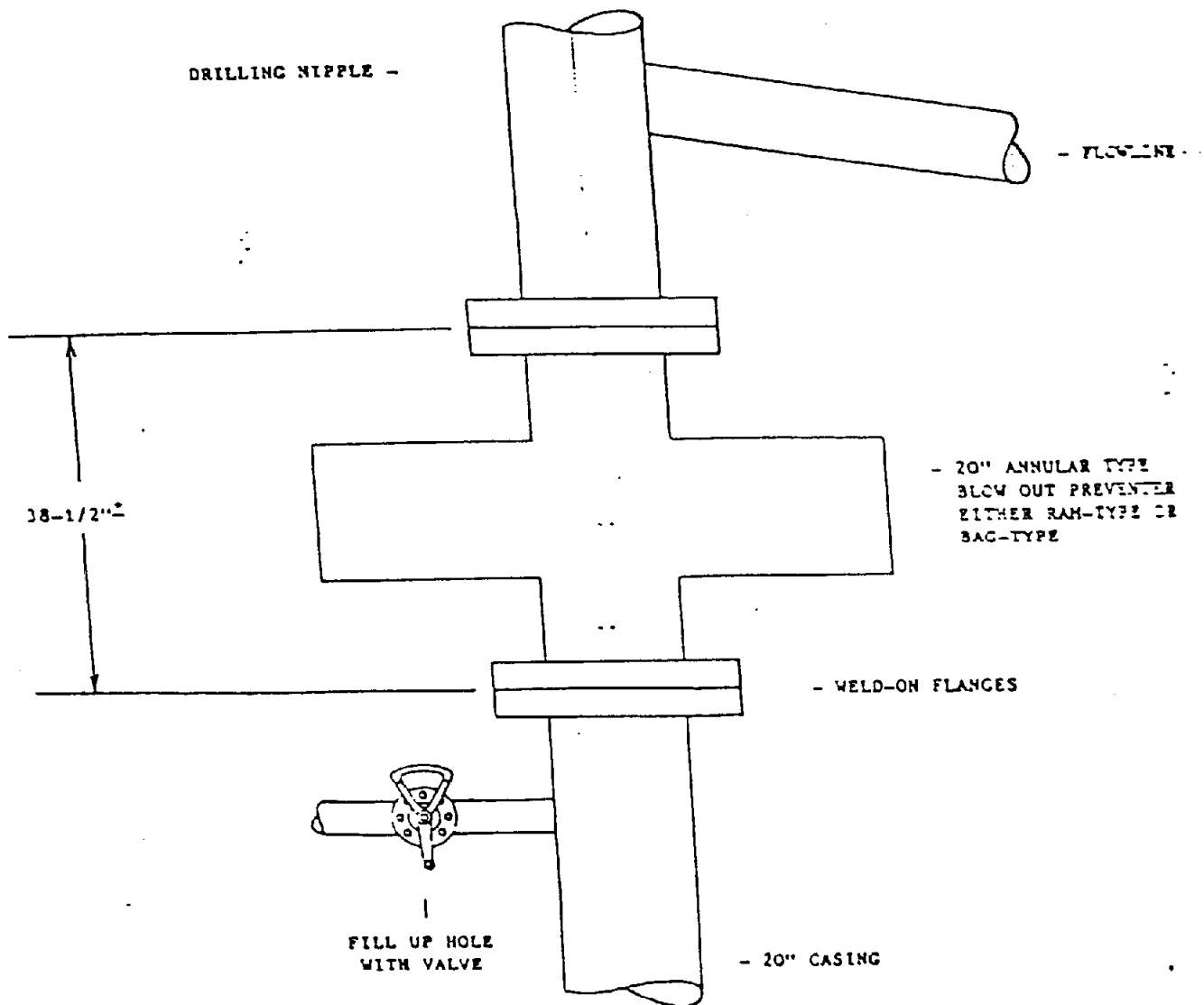


Fig. 6. Blow Out Preventer and Wellhead
Assembly for 20 in. casing

MUD

TABLE 1

MUD LOGGING, WELLHEAD & DIRECTIONAL PROGRAMS

WELL WEN-~~12~~ /

DEPTH INTERVAL	MUD TYPE	WEIGHT	API FLUID LOSS	YIELD POINT	PH	Vis
100 - 1000	Gel & Water	8.8	12	--	10-12	40-45
1000 - 3000'	Gel & Water	9.0	10	4-6	10-12	35-37
3000 - T.D.	Water or lightly gelled water.	TO BE DETERMINED	BY SYSTEM			

REMARKS Lost Circulation - Lost circulation is most likely to be caused by breaking down of formations because of excessive mud weight. This is best controlled by prevention. A mud weight not to exceed 9.1 lbs/gal is necessary to avoid lost circulation. If a "lost returns" condition is experienced the viscosity should be held in the 36-40 sec/qt range and the mud weight lowered as much as possible. The addition of fibrous material and graded lost circulation material (LCM) may also be necessary. If lost circulation is caused by large fractures or caverns it would be advisable to drill ahead blindly to a casing point as soon as possible or attempt to cement off the lost circulation zone.

LOGGING

DEPTH INTERVAL	LOG TYPES	LOG SCALES
100 - 1000	IES & Temperature (PCT)	5" = 100' 2" = 100'
1000 - 3000'	IES, formation density-neutron, temperature, caliper, borehole compensated sonic and fracture finder, cement bond log.	5" = 100' 2" = 100'
3000 - 5000'	IES, formation density-neutron, temperature, dip meter, caliper, borehole compensated sonic and fracture finder	5" = 100' 2" = 100'

REMARKS

IES and temperature logs are required by the California Division of Oil and Gas for all intervals.

WELLHEAD

API NOMINAL SIZE	WORKING PRESSURE PSI	TYPE	MAKE
20" Flange	100 psi min	Weld-on Top Flange	Rental
13-3/8" x 13-5/8"-3000	3000 psi	13-3/8" Weld-on x 13-5/8"-3000 API	W-K-M/Midway
12" Valve 400 ANSI	875 psi @ 300° F	12" 400 ANSI	W-K-M
12" 400 x 8" 300	655 psi @ 300° F	12" x 8" Pump Hanger Spool	W-K-M/Midway
* 8" 300 x 8" 300	655 psi @ 300° F	8" 300 ANSI	W-K-M

REMARKS * These items are required to install tubing and pump in case the well requires pumping and will not flow on its own. These items may be omitted if the well flows.

DIRECTIONAL OR STRAIGHT-HOLE

The proposed hole shall be a straight hole test.

Limits are set on the various hole stages as follows:

50' - 500' Maximum angle to be 5° Maximum rate of change 1-1/2° per 100'.
 500' - 3000' Maximum angle to be 8° Maximum rate of change 1-1/2° per 100'.
 3000' - 5000' Maximum angle to be 10° Maximum rate of change 1-1/2° per 100'.

Run surveys every 150'. Multi-shot survey may or may not be required at casing points. Sidetrack may be an alternative for unsuccessful wells.

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CASING, CEMENTING AND BOP PROGRAM

CASING PROGRAM

INTERVAL	WEIGHT LB/FT	GRADE	JOINT TYPE	CALCULATED SAFETY FACTORS			
				TOP BURST	BOT. BURST	COLL.	TENSION
0 - 100'	94	H-40	Welded	CONDUCTOR			

DESIGN CONDITIONS

SURFACE BURST PRESSURE	-	N/A	PSI	OUTSIDE MUD WT. (COLLAPSE)	-	N/A	PPG
INSIDE MUD WEIGHT (BURST)	-	N/A	PPG	INSIDE MUD WT. (COLLAPSE)	-	N/A	PPG
OUTSIDE MUD WEIGHT (BURST)	-	N/A	PPG	FORM. PRESS. GRAD. AT SHOE (COLLAPSE)	-	N/A	PPG
FRAC. GRAD. AT SHOE (BURST)	-	N/A	PPG	BIAXIAL LOAD: COLL. <input type="checkbox"/>	BURST <input type="checkbox"/>	BOUYANCY: YES <input type="checkbox"/>	NO <input type="checkbox"/>

CEMENTING PROGRAM

SLURRY DESCRIPTION AND PROPERTIES

SLURRY DESCRIPTION (AND NUMBER)

272 cubic feet (10 cubic yards) of Portland Concrete.

Construction Grade Concrete is adequate.

			DESIRED TOP	EXCESS
SLURRY VOL. - CU FT / (SLURRY NO.)	10 yd ³			
SLURRY YIELD - CUBIC FEET/SACK	-			
SLURRY DENSITY - PPG	-			
THICKENING TIME - DEPTH SCH/HRS. MIN.	-			
COMPRESSIVE STRENGTH - PSI/HOURS	-			

RUNNING AND CEMENTING INSTRUCTIONS

SHOE, COLLAR(S) AND JOINT STRENGTHENING

No cementing shoe.

CENTRALIZERS AND SCRATCHERS - NUMBER, TYPE AND SPACING

No centralizers.

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PREFLUSH, DISPLACEMENT RATE, PLUGS, RECIPROCATION, ETC.

Cement to be dumped down annulus from ready mix cement truck. Conductor should be installed and cemented prior to large rotary rig moving on location.

PRESSURE TESTING AND LANDING

Weld-on 20" flange for installation of blow out preventer and weld in 3" outlet with valve below the flange.

BOP PROGRAM

API STACK ARRANGEMENT CODE	WORKING PRESSURE PSI	MINIMUM BORE INCHES	TYPE	TEST PRESSURES - PSI		
				RAM TYPE	ANNULAR TYPE	ROTATING HEA
--	--	17-1/2"	Annular Preventer		100 psi	

CASING PROGRAM

WELL 11
WEN 1

DESIGN CONDITIONS

CEMENTING PROGRAM

SLURRY DESCRIPTION AND PROPERTIES

[illegible]

Slurry #2: 200 cubic feet (124 sacks) of class "G" cement blended with 40% silica flour and

RUNNING AND CEMENTING INSTRUCTIONS

SHOE, COLLAR(S) AND JOINT STRENGTHENING

- CENTRALIZERS AND SCRATCHERS - NUMBER, TYPE AND SPACING

- PREFLUSH, DISPLACEMENT RATE, PLUGS, RECIPROICATION, ETC.

PRESSURE TESTING AND LANDING

- BOP PROGRAM**

API STACK ARRANGEMENT CODE	WORKING PRESSURE PSI	MINIMUM BORE INCHES	TYPE	TEST PRESSURES - PSI		
				RAM TYPE	ANNULAR TYPE	ROTATING HEA
	960 psi	12-1/4"	See Figure 7	960	960	

PROCEDURE FOR RUNNING AND CEMENTING 13-3/8" CASING

- 1) Drill to casing depth.
- 2) Circulate for 2-3 hours until logging company arrives on location.
- 3) Pull out of hole.
- 4) Rig up loggers and run temperature log, electric logs, then temperature log again. Wait on bottom with temperature for 30 minutes before pulling out of hole, or as directed.
- 5) Rig down loggers and run in hole with bit and monel to total depth. Pick up excess drill pipe needed to stab into shoe for cementing the 13-3/8" casing.
- 6) Circulate for 2 hours - short trip and circulate for 1-2 hours.
- 7) Pull out of hole and rig up to run 13-3/8" casing. Run multi-shot survey while pulling out of hole.
- 8) Run 13-3/8" casing with stab-in shoe on bottom and centralizers located one in middle of bottom two joints and then one every other collar without any on top 300'.
- 9) Set casing in elevators on spider. Do not set casing slips.
- 10) Rig up with landing plate on top of 13-3/8" casing. Run drill pipe into 13-3/8" with stab-in sub on bottom. Stab-in shoe and rig up to circulate. Tie-down drill pipe.
- 11) Circulate one hour to clean up and cool down hole.
- 12) Rig up to cement.
- 13) Pump in 30 BBLS viscous geo-gel mud spacer. (Viscous mud spacer should be blended in ribbon blender.) If lost circulation is a problem, precede the geo-gel spacer with 30 BBLS fresh water, 50 BBLS flo-chek, then 30 BBLS fresh water.
- 14) Pump cement without any water spacers. Pump Slurry #1: 1:1 class "G" cement and perlite blended with 40% silica flour, 3% gel and 0.5% CFR-2. Retard as needed. Pump this cement until you see returns of cement.
- 15) Pump Slurry #2 cement: class "G" cement with 40% silica flour and 0.5% CFR-2. Retard as needed. Pump 200 cubic feet of this Slurry #2 cement. This last 100 cubic feet should be staged in: Pump 35 cubic feet and shut down for 5-10 minutes, then pump 35 cubic feet and shut down again for 5-10 minutes before pumping last 30 cubic feet. Check for fall back in annulus each time. Pull out of stab-in shoe and clear drill pipe, dropping all cement from drill pipe on top of shoe.
- 16) Rig down circulating equipment and pull out of hole with drill pipe.
- 17) Hook up to 13-3/8" casing elevators and pick up slightly to remove spider, then center 13-3/8" casing in stack.
- 18) Drain blow out preventer equipment after 30 minutes from the time cement was in place.

- 19) Wait on cement six hours before landing casing. Check for cement fall back in annulus periodically.
- 20) Cut off 13-3/8" casing. Remove blow out preventer equipment. Weld-on 13-3/8" casing head and nipple up blow out preventer equipment.
- 21) Test blow out preventer equipment to 750 psi with Division of Oil and Gas Representative on location to witness test.
- 22) Change out bottom hole drilling assembly for 12-1/4" tools and run in hole.

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CASING PROGRAM TABLE 2

INTERVAL	WEIGHT LB/FT	GRADE	JOINT TYPE	WELL # WENAW 1			
				CALCULATED SAFETY FACTORS			
				TOP BURST	BOT. BURST	COLL.	TENSION
800 - 3000	36	K-55	Buttress	7.01	4.00	1.42	9.49
HL POWER COMPANY "Wen" 1 (035-90064) 13/29N/15E MD B&M							
DESIGN CONDITIONS							
SURFACE BURST PRESSURE	-	960	PSI	OUTSIDE MUD WT. (COLLAPSE) -		9.1	PPG
INSIDE MUD WEIGHT (BURST)	-	9.1	PPG	INSIDE MUD WT. (COLLAPSE) -		0	PPG
OUTSIDE MUD WEIGHT (BURST)	-	8.6	PPG	FORM. PRESS. GRAD. AT SHOE (COLLAPSE) -		9.1	PPG
FRAC. GRAD. AT SHOE (BURST)	-	14.25	PPG	BIAXIAL LOAD: COLL. <input checked="" type="checkbox"/> BURST <input checked="" type="checkbox"/> BOUYANCY: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			

CEMENTING PROGRAM

SLURRY DESCRIPTION AND PROPERTIES				
SLURRY DESCRIPTION (AND NUMBER)				
1047 cubic feet (494 sacks) of API class "G" cement blended on a ratio of 1:1 with perlite and 40% by volume of silica flour and 3% gel and 0.5% CFR-2 (friction reducer) followed by 300 cubic feet (185 sacks) of class "G" cement blended with 40% silica flour and 0.5% CFR-2.				
SLURRY #1			DESIRED TOP	EXCESS
			800	100%
SLURRY VOL. - CU FT / (SLURRY NO.)	1047	300		
SLURRY YIELD - CUBIC FEET/SACK	2.12	1.62		
SLURRY DENSITY - PPG	106	116		
THICKENING TIME - DEPTH SCH/HRS, MIN.	2-3 Hrs.	2-3 Hrs.		
COMPRESSIVE STRENGTH - PSI/HOURS	1500 psi/24 Hrs	2895 psi/24 Hrs.		
RUNNING AND CEMENTING INSTRUCTIONS				
SHOE, COLLAR(S) AND JOINT STRENGTHENING				
1) Run float collar 2 joints above float shoe.				
2) Run liner in on Midway type liner hanger and hang 200' up into 13-3/8" casing.				
CENTRALIZERS AND SCRATCHERS - NUMBER, TYPE AND SPACING				
1) Run 1 centralizer in the middle of the bottom 2 joints and 1 centralizer every other casing collar except for the top 200' of the 9-5/8" liner string.				
PREFLUSH, DISPLACEMENT RATE, PLUGS, RECIPROCATION, ETC.				
See Pages 18 and 19.				
PRESSURE TESTING AND LANDING				
1) Once top plug has bumped, check for flow back then pull out of liner hanger and trip to lay down liner setting tool. Run in open ended and circulate out excess cement down to top of liner. 2) Wait 6 hours. 3) Test lap to 700 psi surface pressure. 4) Squeeze lap if necessary.				

BOP PROGRAM

API STACK ARRANGEMENT CODE	WORKING PRESSURE PSI	MINIMUM BORE INCHES	TYPE	TEST PRESSURES - PSI		
				RAM TYPE	ANNULAR TYPE	ROTATING HEAD
	960	12-1/4"	See Figure 7	960	960	

PROCEDURE FOR RUNNING AND CEMENTING 9-5/8" CASING

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- 1) Drill to casing depth.
- 2) Circulate for 2-3 hours until loggers arrive on location.
- 3) Pull out of hole.
- 4) Rig up and run temperature log, electric logs, then temperature log again. Wait on bottom with temperature for 30 minutes before pulling out of hole, or as directed.
- 5) Rig down loggers and run in hole with bit and monel to total depth.
- 6) Circulate for 2 hours, short trip and circulate for 1-2 hours.
- 7) Pull out of hole and rig up to run 9-5/8" casing. Run multi-shot survey while pulling out of hole.
- 8) Run 9-5/8" casing with shoe on bottom and centralizers located one in middle of bottom two joints and then one every other collar without any on top 300'. Hang liner using a Midway type hanger 200' up inside 13-3/8" casing on 4-1/2" drill pipe.
- 9) Hang liner, tie down drill pipe and rig up cement head.
- 10) Circulate one hour to clean up and cool down hole.
- 11) Rig up to cement.
- 12) If lost circulation is encountered, pump 10 BBLS fresh water ahead of 50 BBLS of flo-chek.
- 13) Pump in 30 BBLS viscous geo-gel mud preflush. (Viscous mud spacer should be blended in ribbon blender).
- 14) Pump cement without any water spacers. Pump Slurry #1: 1:1 class "G" and perlite blended with 40% silica flour, 3% gel and 0.5% CFR-2. Retard to give 2-3 hours pumping time at 350° F. Use 75-100% excess.
- 15) Pump Slurry #2: class "G" cement with 40% silica flour and 0.5% CFR-2. Retard as needed. Pump 300 cubic feet of this Slurry #2 cement. This last 100 cubic feet should be staged in: Pump 35 cubic feet and shut down for 5-10 minutes, then pump 35 cubic feet and shut down again for 5-10 minutes before pumping last 30 cubic feet.
- 16) Rig down circulating equipment, pull out of hanger with drill pipe and pull out of hole.
- 17) Run in hole with 12-1/4" bit to top of liner and circulate out to clean out excess cement.
- 18) Trip to change bits to 8-3/4" and clean out cement from inside the 9-5/8" liner top.
- 19) Wait on cement six hours and test liner lap to 700 psi surface pressure. Squeeze if necessary.

- 20) Test blow out prevention equipment to 700 psi with Division of Oil and Gas Representative on location to witness test.
- 21) Change out bottom hole drilling assembly for 8-3/4" tools and run in hole to drill ahead.

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CASING PROGRAM

INTERVAL	WEIGHT LB/FT	GRADE	JOINT TYPE	CALCULATED SAFETY FACTORS			
				TOP BURST	BOT. BURST	COLL.	TENSION
2800 - 5000'	26	N-80	L. T. & C.	S L O T T E D			9.0
				(2" x 1 1/8" slots, 90° apart on 6" centers)			
HL POWER COMPANY "Wen" 1 (035-90064) 13/29N/15E MD B&M							
DESIGN CONDITIONS							
SURFACE BURST PRESSURE -		N/A	PSI	OUTSIDE MUD WT. (COLLAPSE) -		N/A	PPG
INSIDE MUD WEIGHT (BURST) -		N/A	PPG	INSIDE MUD WT. (COLLAPSE) -		N/A	PPG
OUTSIDE MUD WEIGHT (BURST) -		N/A	PPG	FORM. PRESS. GRAD. AT SHOE (COLLAPSE) -		N/A	PPG
FRAC. GRAD. AT SHOE (BURST) -		N/A	PPG	BIAXIAL LOAD: COLL. <input type="checkbox"/> BURST <input type="checkbox"/>		BOUYANCY: YES <input type="checkbox"/> NO <input type="checkbox"/>	

CEMENTING PROGRAM

SLURRY DESCRIPTION AND PROPERTIES				
SLURRY DESCRIPTION (AND NUMBER)				
Liner to be hung with 200' of lap in the 9-5/8" liner and not cemented.				
			DESIRED TOP	EXCESS
SLURRY VOL. - CU FT / (SLURRY NO.)	N/A			
SLURRY YIELD - CUBIC FEET/SACK				
SLURRY DENSITY - PPG				
THICKENING TIME - DEPTH SCH/HRS, MIN.				
COMPRESSIVE STRENGTH - PSI/HOURS				
RUNNING AND CEMENTING INSTRUCTIONS				
SHOE, COLLAR(S) AND JOINT STRENGTHENING				
1) Guide shoe only run on bottom. 2) No joints thread-locked or welded except for shoe.				
CENTRALIZERS AND SCRATCHERS - NUMBER, TYPE AND SPACING				
1) No centralizers or scratchers in case liner would require retrieving at a later date.				
PREFLUSH, DISPLACEMENT RATE, PLUGS, RECIPROCATION, ETC.				
N/A				
PRESSURE TESTING AND LANDING				
1) Liner hung with Midway type liner hanger.				

BOP PROGRAM

API STACK ARRANGEMENT CODE	WORKING PRESSURE PSI	MINIMUM BORE INCHES	TYPE	TEST PRESSURES - PSI		
				RAM TYPE	ANNULAR TYPE	ROTATING HEAD

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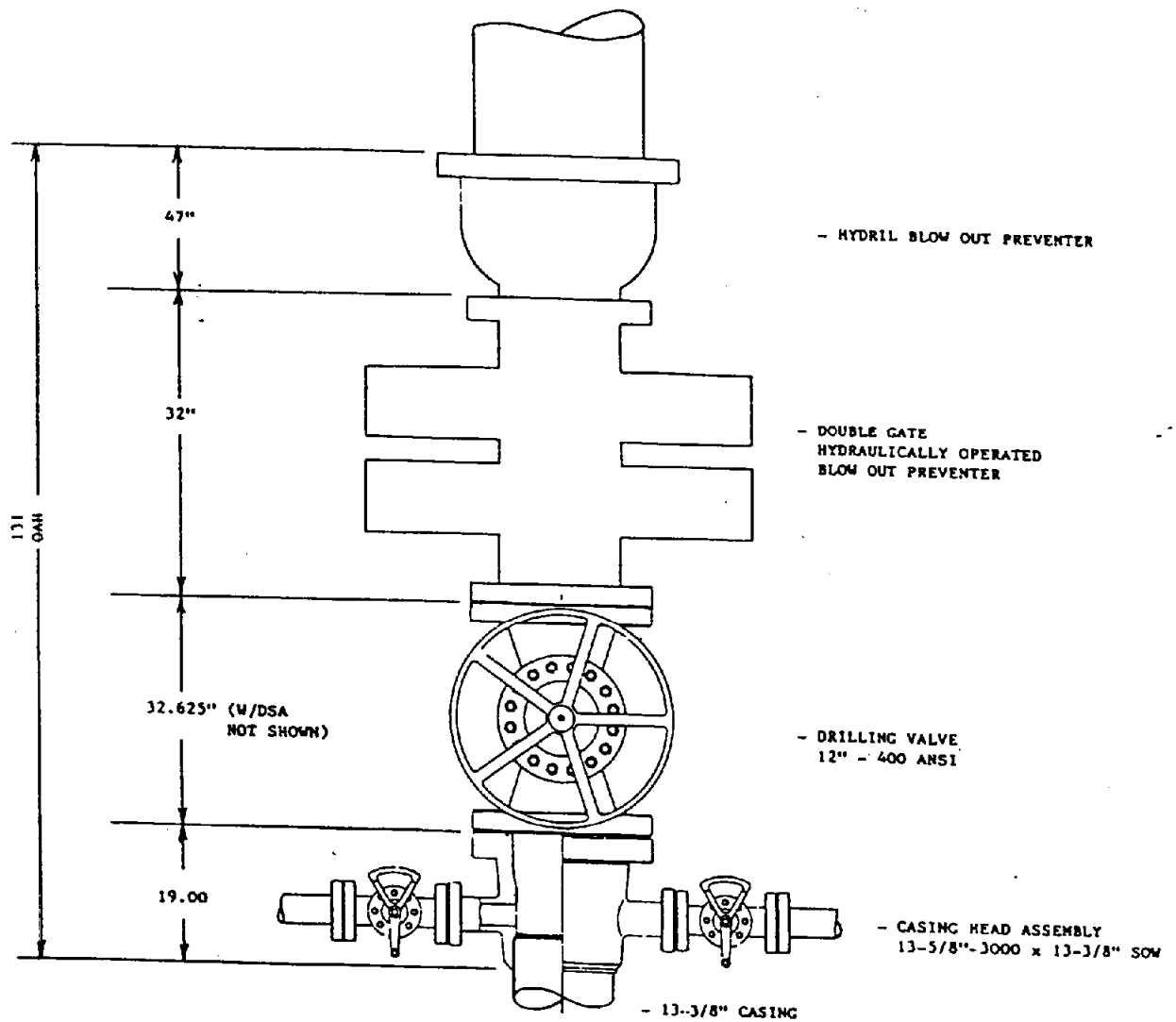


Figure 7. Blow Out Preventer and Wellhead Assembly for 13-3/8 in. Casing

5. WELL COMPLETION

Completion techniques for this well will depend on its potential for production. There are three options or possibilities for completion:

- a. Completion as a flowing (artesian) well. If during the testing phases the well flows with commercial temperatures and pressures, the well will be completed with a wellhead design as shown in Figure 8 and as specified in Table 1.
- b. Completion with a downhole pump. If the well will not flow, but the fluid level in the hole recovers, it may be possible to complete the well using a 6-3/4 in. downhole pump for geothermal service. The pump will be hung on 8-5/8 in. or smaller tubing, and will be capable of pumping approximately 650 gpm. The wellhead design for a pumping well is shown in Figure 9; specifications are given in Table 1. (An alternate pump with surface motor will be considered.)
- c. Abandon or sidetrack well. If the well produces little or no fluids, and fluid level does not recover rapidly, or its temperature is inadequate, it may be necessary to plug and abandon the well. If temperature is adequate but permeability is lacking, sidetracking the well may be an alternative to abandonment.

An outline of the completion sequence is given below:

Initial Evaluation

1. Upon reaching total depth the well will be logged.
2. The mud will be displaced with water.
3. The well will then be evacuated using compressed air or nitrogen.
4. If well flows to surface, it will be tested at various rates and pressures.
5. If the fluid temperature and production rate appears commercial, the well will be completed as outlined in steps 6 through 10. If the well does not flow adequately to the surface, but commercial production appears possible with pumping (based on recovery rates of fluid level after evacuation), the well will be completed with tubing and pump, as

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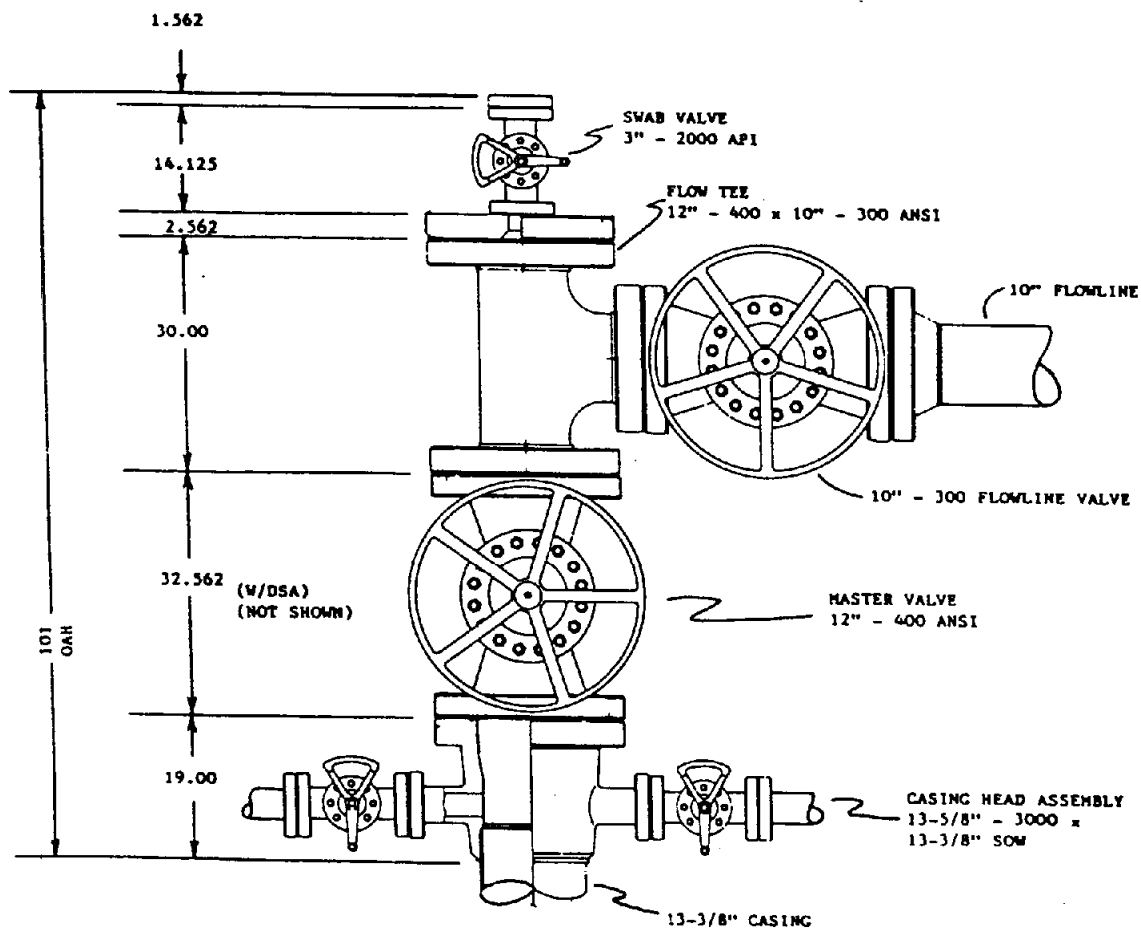


Figure 8. Wellhead Completion for Flowing Well

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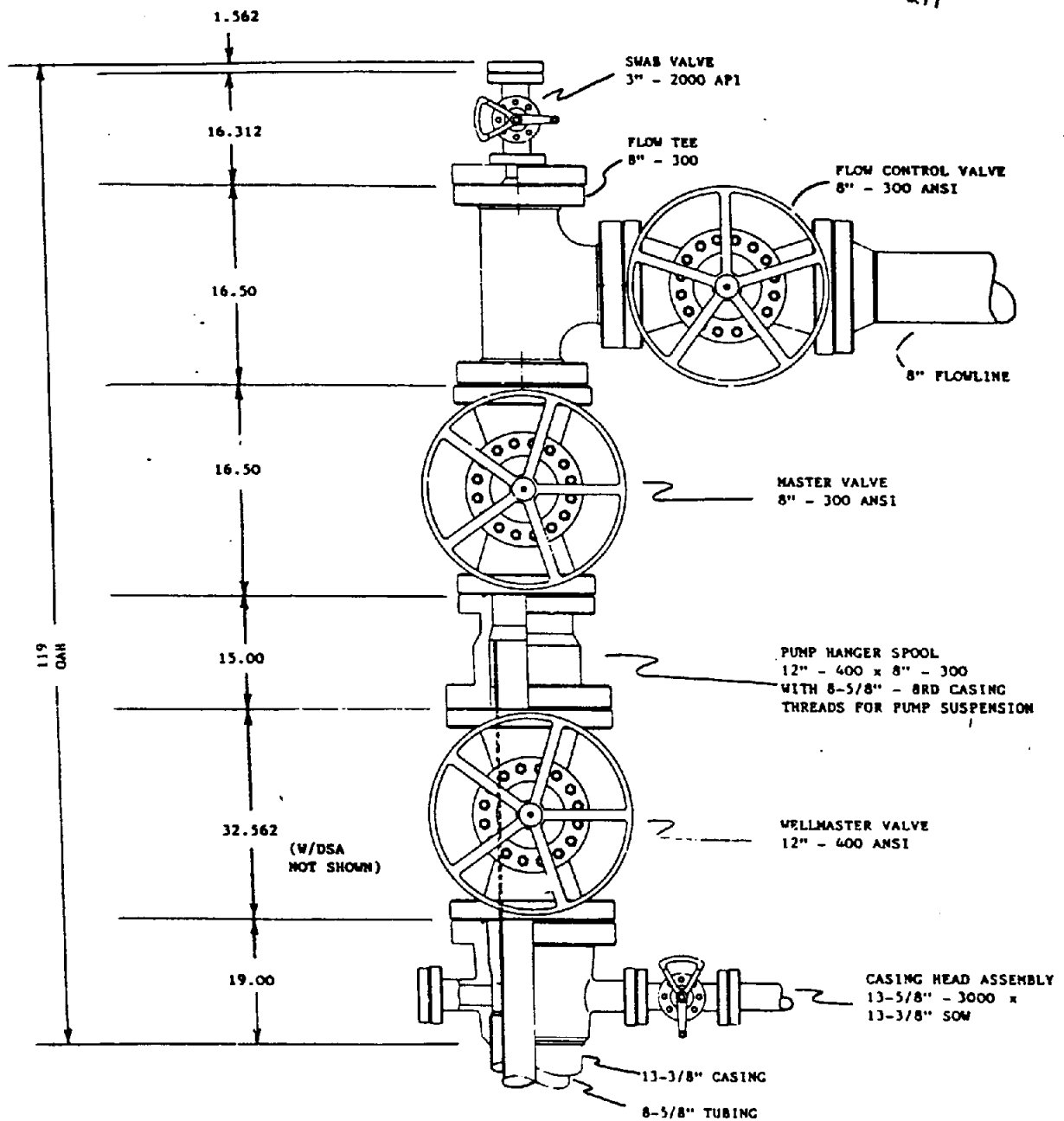


Figure 9. Wellhead Completion for Pumping Well

outlined in steps 11 through 19. (A rental unit will be considered for evaluation tests.) Additional down-hole temperature logs may be necessary after evacuation in order to establish fluid temperatures. If fluid-level recovery indicates insufficient permeability for commercial production, or if temperature logs indicate that temperatures are inadequate, the well will be abandoned or sidetracked (step 20).

Completion for Flowing Well

6. Run in hole to total depth and clean out any fill.
7. Run slotted liner from 200 feet inside the 9-5/8 in. casing to total depth and hang it with Midway-type liner hanger.
8. Displace drilling mud with water if mud was required to clean out the hole.
9. Evacuate the well with compressed air or nitrogen.
10. Lay down drill pipe and move off rig. Well completed as shown in Figure 8.

Completion for Pumping Well

11. Run in hole to total depth and clean out any fill.
12. Run slotted liner from 200 feet up in 9-5/8 in. casing to total depth and hang it with Midway-type liner hanger.
13. Displace drilling mud with water if mud was required to clean out the hole.
14. Evacuate the well with compressed air or nitrogen.
15. Pick up 6-3/4 in. O.D. pump (Reda Model #675 or equivalent) on 8-5/8 in. or smaller tubing (if required to enter 9-5/8 in. casing). Run in hole with pump and tubing to approximately 200 feet below the static fluid level.
16. Install pump hanger spool with electric cable port as shown in Figure 9.
17. Flow well with pump and test at a minimum of 3 different flow rates, measuring drawdown.
18. Adjust pump depth, if necessary, based on drawdown tests.

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19. Lay down drill pipe. Move rig off location.

Abandonment or Sidetrack

20. Abandonment will be according to the State of California Division of Oil and Gas Regulations. Depth and direction of a possible sidetrack will be determined by the site geologist in consultation with GeoProducts and DOE.

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DIVISION OF OIL AND GAS

Notice of Intention to Drill Geothermal Resources Well

RECEIVED
JUN 12 1981

DIVISION OF OIL & GAS

FOR DIVISION USE ONLY					SACRAMENTO	
MAP	MAP BOOK	CARDS	FEE	BOND	FORMS	
					OGD114	OGD121

In compliance with Section 3724, Division 3, Chapter 4, Public Resources Code, notice is hereby given that it is our intention to commence drilling well WENDEL 1 (Name and Number), API No. 035-90064 (Assigned by Division)

Sec. 13, T. 29N, R. 15E, B. & M., WENDEL Field, Lassen County.

Legal description of mineral-right lease, consisting of 280 acres, is as follows: (Attach map or plat drawn to scale)
NW/4, SW/4 of Sec. 13, T29N, R15E, MDBM, less SE/4 of SW/4.

Do geothermal resources and surface leases coincide? Yes X No . If answer is no, attach legal description of both surface and mineral leases, and map or plat drawn to scale.

Location of well meters along section/property line and meters at right (Direction) (Cross out one) (Direction)

angles to said line from the corner of section/property or (Cross out one)
center of SW/4, SW/4 Sec. 13

Is the well location within 90 meters of a habitation or place of public assemblage? Yes ☐ No ☒

If well is to be directionally drilled, show proposed coordinates (from surface location) at total depth: N/A
200 meters N and 200 meters E (Direction) (Direction)

Elevation of ground above sea level 1250 meters. RT from enclosed map.

All depth measurements taken from top of KB (Derrick Floor, Rotary Table, or Kelly Bushing) which is 6 meters above ground.

PROPOSED CASING PROGRAM

SIZE OF CASING CM API	WEIGHT (Kg)	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING
50.8 cm	35.4	A-53 welded steel	6m	+36m	6-36m	8m ³
34 cm	30.9	K-55 STC seamless	6m	+310m	6-+310m	39m ³
24.4 cm	16.3	K-55 BT seamless	+250m	+921m	+250-+921m	37m ³

(A complete drilling program must be submitted in addition to the above program)

Intended zone(s) Fractured Volcanics, 1070-1700m, (Hydrostatic)
of completion 1700 meters. Estimated total depth 1700 meters.
(Name, depth, and expected pressure)

It is understood that if changes in this program become necessary we are to notify you immediately.

Name of Operator <u>HL POWER COMPANY</u>		Type of Organization (Corporation, Partnership, Individual, etc.) <u>Corporation</u>	
Address <u>1330 Broadway</u>		City <u>Oakland</u>	Zip Code <u>94612</u>
Telephone Number <u>893-8365</u>	Name of Person Filing Notice <u>Kevin Johnson</u>	Signature <u>[Signature]</u>	Date <u>6/9/81</u>

This notice, the appropriate drilling fee, an indemnity or cash bond and approval of the Oil and Gas Supervisor must be received before drilling begins. If drilling has not commenced within one year of receipt of this notice, the notice and approval will be considered cancelled.